



ATTACHMENT A

Claims 1 - 17: (Cancelled)

18. (Currently Amended) Lewis base adducts comprising a compound of formula $MgCl_n(OR)_{2-n}$, and an aprotic Lewis base (LB) that are in molar ratios to each other defined by formula $MgCl_n(OR)_{2-n}LB_p$ in which n is from 0.1 to 1.9, p ranges from 0.4 to 3 ~~is higher than 0.4~~, ~~[[and]]~~ R is a ~~C1-~~ C₁-C₁₅ hydrocarbon group, and the aprotic Lewis base is selected from C₂-C₂₀ aliphatic ethers and alkyl esters of C₁-C₂₀ aliphatic carboxylic acids.

19. (Cancelled)

20. (Currently Amended) The adducts according to claim 19 in which the C₂-C₂₀ aliphatic ether is at least one cyclic ether comprising 3-5 carbon atoms.

21. (Previously Presented) The adducts according to claim 20 in which the ether is tetrahydrofuran.

22. (Currently Amended) The adducts according to claim 18 in which p ~~is higher than~~ ranges from 0.45 to 3.

23. (Previously Presented) The adducts according to claim 18 in which n ranges from 0.4 to 1.6.

24. (Currently Amended) A process for preparing Lewis base adducts comprising a compound of formula $MgCl_n(OR)_{2-n}$, and an aprotic Lewis base (LB) that are in molar ratios to each

other defined by formula $MgCl_n(OR)_{2-n}LB_p$ in which n is from 0.1 to 1.9, p ranges from 0.4 to 3 ~~is higher than 0.4~~,
[[and]] R is a ~~C1-C15~~ C₁-C₁₅ hydrocarbon group, and the
aprotic Lewis base is selected from C₂-C₂₀ aliphatic ethers
and alkyl esters of C₁-C₂₀ aliphatic carboxylic acids; the
process comprising

- contacting organometallic compounds of formula Cl_mMgR_{2-m} ,
where m is from 0 to 2, and R is a C₁-C₁₅ hydrocarbon group;
with

- an OR source where R is a C₁-C₁₅ hydrocarbon group in
presence of [[an]] the aprotic Lewis base (LB).

25. (Previously Presented) The process according to claim 24
in which the OR source is selected from ROH alcohols and
orthosilicic acid esters where R is a C₁-C₁₅ hydrocarbon
group.

26. (Previously Presented) The process according to claim 24
in which Cl_mMgR_{2-m} is formed, and further exchange with the OR
source takes place in a single step.

27. (Currently Amended) A process for preparing Lewis base
adducts comprising a compound of formula $MgCl_n(OR)_{2-n}$, and an
aprotic Lewis base (LB) that are in molar ratios to each
other defined by formula $MgCl_n(OR)_{2-n}LB_p$ in which n is from
0.1 to 1.9, p ranges from 0.4 to 3 ~~is higher than 0.4~~,
[[and]] R is a ~~C1-C15~~ C₁-C₁₅ hydrocarbon group, and the
aprotic Lewis base is selected from C₂-C₂₀ aliphatic ethers
and alkyl esters of C₁-C₂₀ aliphatic carboxylic acids; the
process comprising reacting mixtures of $MgCl_2$ and $MgOR_2$
wherein R is a C₁-C₁₅ hydrocarbon group in presence of the

aprotic Lewis base (LB).

28. (Currently Amended) A catalyst component obtained by contacting:

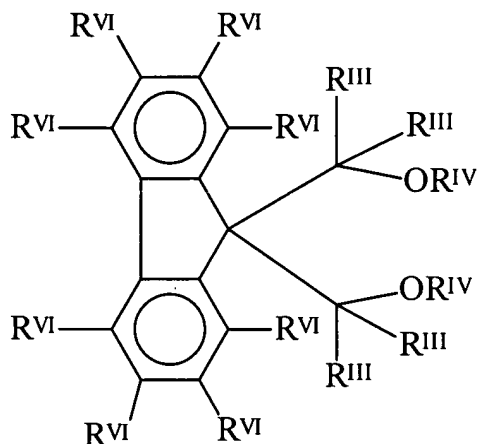
- at least one Lewis base adduct comprising a compound of formula $\text{MgCl}_n(\text{OR})_{2-n}$, and an aprotic Lewis base (LB) that are in molar ratios to each other defined by formula $\text{MgCl}_n(\text{OR})_{2-n}\text{LB}_p$ in which n is from 0.1 to 1.9, p ranges from 0.4 to 3 ~~is higher than 0.4~~, ~~[[and]]~~ R is a C_1 - C_{15} hydrocarbon group, and the aprotic Lewis base is selected from C_2 - C_{20} aliphatic ethers and alkyl esters of C_1 - C_{20} aliphatic carboxylic acids;
- with at least one compound comprising at least one transition metal belonging to one of the groups 4 to 6 of the Periodic Table of Elements (new notation).

29. (Previously Presented) The catalyst component according to claim 28 in which the compound comprising at least one transition metal is a transition metal compound selected from at least one titanium compound of formula $\text{Ti}(\text{OR}')_n\text{X}_{y-n}$ in which n is between 0 and y ; y is a valence of titanium; X is halogen; and R' is an alkyl radical comprising 1-10 carbon atoms or COR' in which R' is a C_1 - C_{10} hydrocarbon group.

30. (Previously Presented) The catalyst component according to claim 28 further comprising at least one electron donor selected from at least one ester, ether, amine, ketone, or mixture thereof.

31. (Previously Presented) The catalyst component according to claim 30 in which the electron donor is selected from 1,3-

diethers of formula (III)



(III)

where

R^{VI} are equal or different, and are hydrogen, halogens, linear or branched C₁-C₂₀ alkyl radicals, C₃-C₂₀ cycloalkyl radicals, C₆-C₂₀ aryl radicals, C₇-C₂₀ alkylaryl radicals and C₇-C₂₀ aralkyl radicals, optionally comprising at least one heteroatom selected from the group consisting of N, O, S, P, Si and halogen as a substitute for carbon, hydrogen, or both;

R^{III} are equal or different, and are hydrogen or C₁-C₁₈ hydrocarbons

R^{IV} are equal or different, and are C₁-C₁₈ hydrocarbons.

32. (Previously Presented) The catalyst component according to claim 31 in which R^{VI} are equal or different, and are Cl, F, or combinations thereof.

33. (Previously Presented) The catalyst component according to claim 31 in which R^{VI} comprise Cl, F, or combinations

thereof as the substitutes for carbon or hydrogen.

34. (Currently Amended) A catalyst system for polymerizing alpha-olefins of formula $\text{CH}_2=\text{CHR}'$, wherein R' is hydrogen or a hydrocarbon radical comprising 1-12 carbon atoms, obtained by contacting a catalyst component obtained by contacting at least one Lewis base adduct comprising a compound of formula $\text{MgCl}_n(\text{OR})_{2-n}$, and an aprotic Lewis base (LB) that are in molar ratios to each other defined by formula $\text{MgCl}_n(\text{OR})_{2-n}\text{LB}_p$ in which n is from 0.1 to 1.9, p ranges from 0.4 to 3 ~~is higher than 0.4~~, [[and]] R is a ~~$\text{C}_1\text{-C}_{15}$~~ $\text{C}_1\text{-C}_{15}$ hydrocarbon group, and the aprotic Lewis base is selected from $\text{C}_2\text{-C}_{20}$ aliphatic ethers and alkyl esters of $\text{C}_1\text{-C}_{20}$ aliphatic carboxylic acids, with at least one compound comprising at least one transition metal belonging to one of the groups 4 to 6 of the Periodic Table of Elements (new notation) with one or more organoaluminum compounds.

35. (Previously Presented) The catalyst system according to claim 34 further comprising an external electron donor compound.

36. (Currently Amended) A process for polymerizing alpha-olefins carried out in presence of a catalyst system for polymerizing alpha-olefins of formula $\text{CH}_2=\text{CHR}'$, wherein R' is hydrogen or a hydrocarbon radical comprising 1-12 carbon atoms, obtained by contacting a catalyst component obtained by contacting at least one Lewis base adduct comprising a compound of formula $\text{MgCl}_n(\text{OR})_{2-n}$, and an aprotic Lewis base (LB) that are in molar ratios to each other defined by formula $\text{MgCl}_n(\text{OR})_{2-n}\text{LB}_p$ in which n is from 0.1 to 1.9, p

ranges from 0.4 to 3 is higher than 0.4, [[and]] R is a C1-
C15 C₁-C₁₅ hydrocarbon group, and the aprotic Lewis base is
selected from C₂-C₂₀ aliphatic ethers and alkyl esters of C₁-
C₂₀ aliphatic carboxylic acids, with at least one compound
comprising at least one transition metal belonging to one of
the groups 4 to 6 of the Periodic Table of Elements (new
notation) with one or more organoaluminum compounds.